1/4

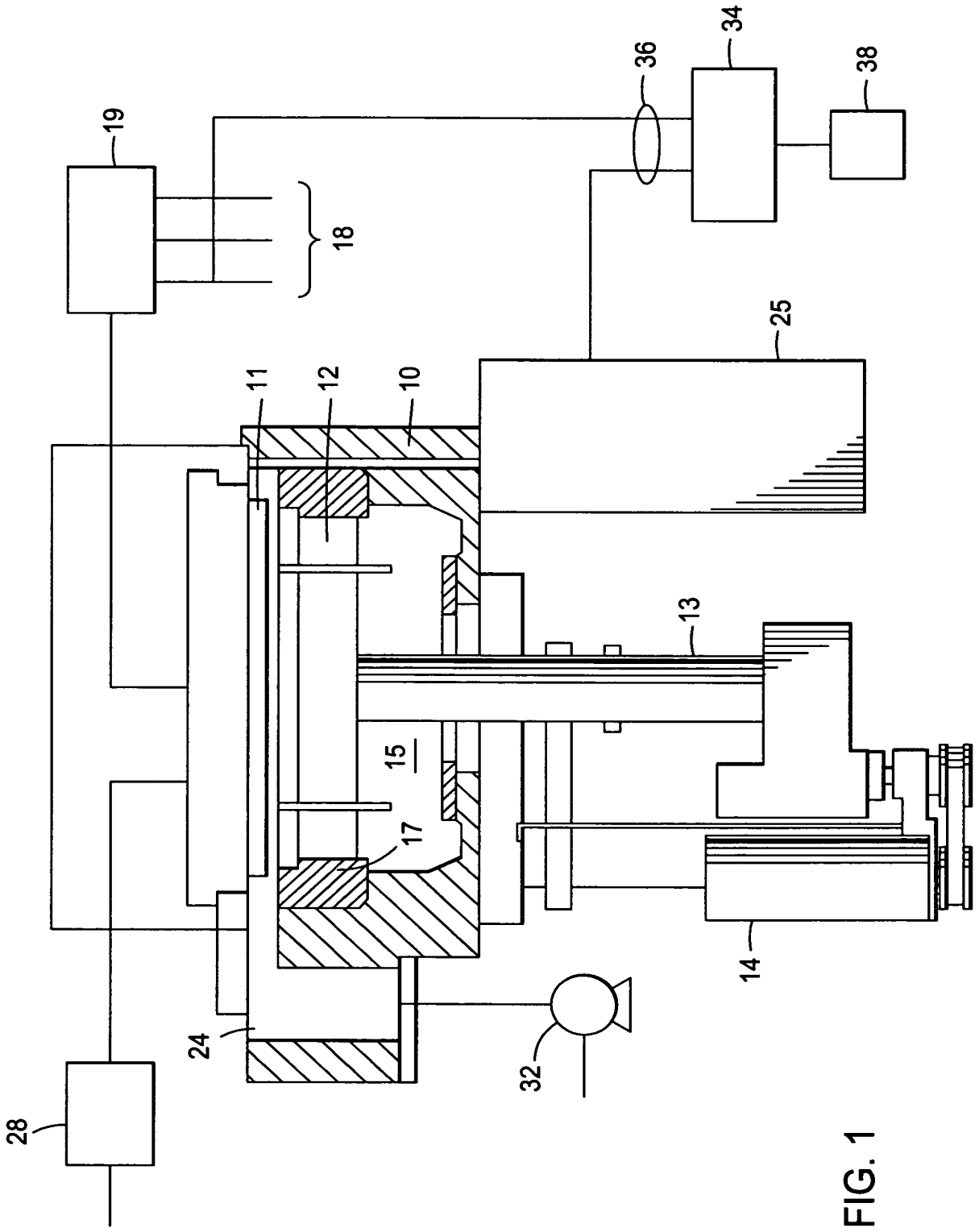


FIG. 1

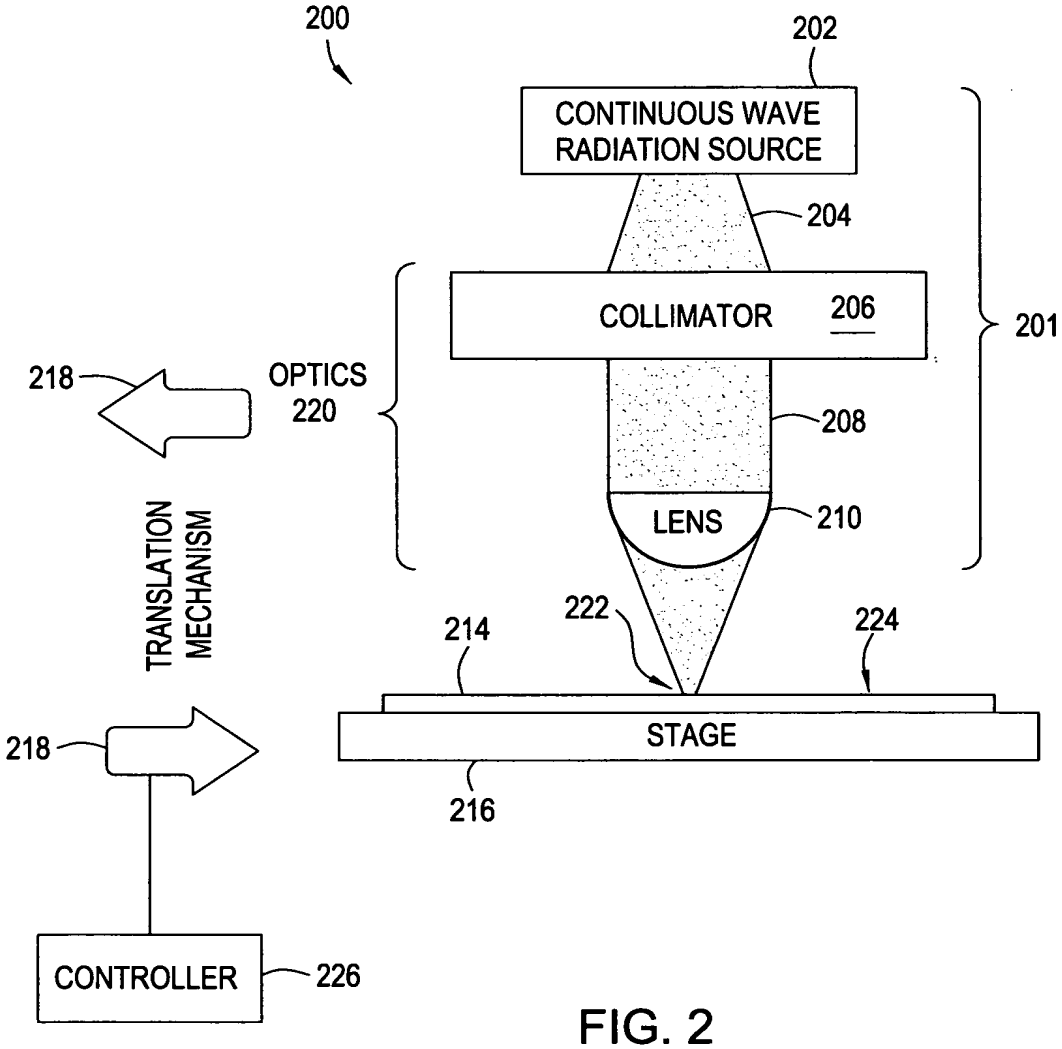

200
202
CONTINUOUS WAVE RADIATION SOURCE
204
COLLIMATOR 206
201
218
OPTICS 220
208
LENS
210
TRANSLATION MECHANISM
214
222
224
218
STAGE
216
CONTROLLER
226

FIG. 2

3/4

FIG. 3A

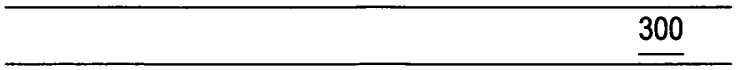


FIG. 3B

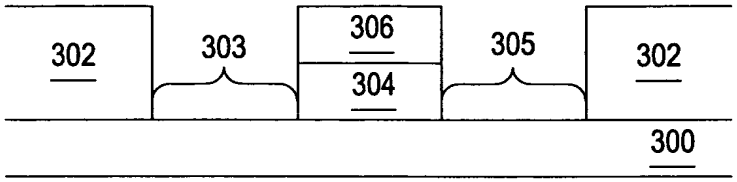


FIG. 3C

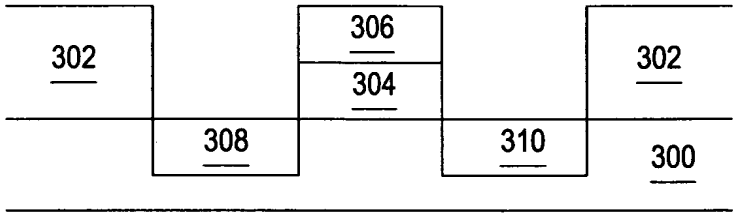


FIG. 3D

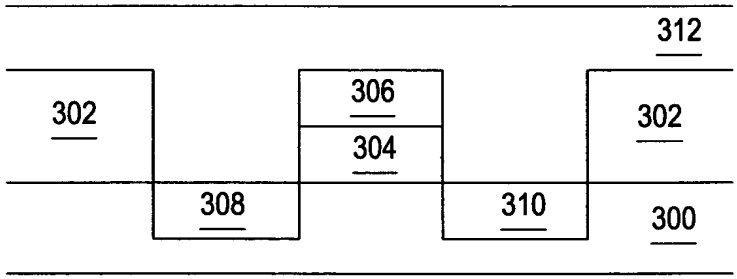


FIG. 3E

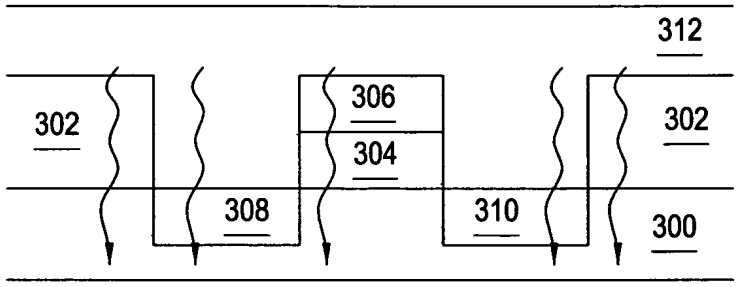
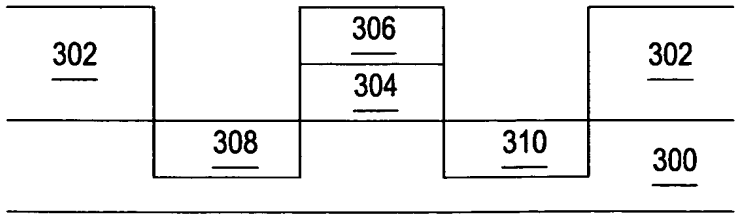


FIG. 3F



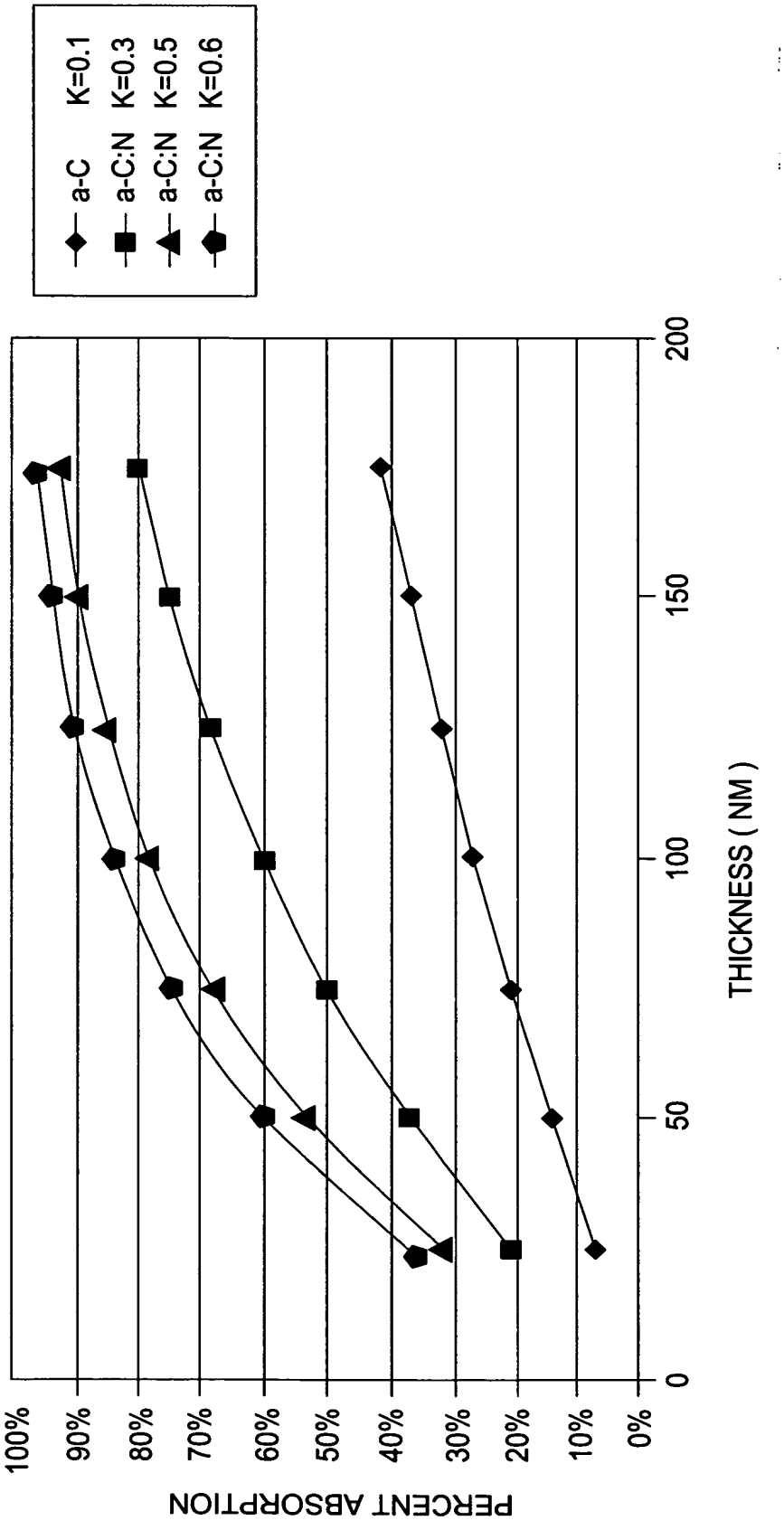

a-C K=0.1
a-C:N K=0.3
a-C:N K=0.5
a-C:N K=0.6
PERCENT ABSORPTION
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
0
50
100
150
200
THICKNESS (NM)

FIG. 4